

Type 1 Facility Closeout Report

Section A. Facility Data

Facility No. Cooling Tower 457
 Facility Descriptor: Building 457 Cooling Tower
 Project: 444 Cluster Closure Project
 Date of Demolition: November 4, 2003
 Additional Information: See attached

(Must include information on environmental releases and conditions of site at turnover to Environmental Restoration)

Section B. Final Characterization Data

Reconnaissance Level Characterization Report (concurrency received) Reconnaissance Level Characterization Report (RLCR) for Cooling Tower 457 - Concurrency Steven H. Gunderson to Joseph A. Legare, date December 24, 2002.

In-process Characterization N/A
 Pre-Demolition Survey Report (approval received) N/A
 Post-Demolition Survey Report (as necessary) N/A

Section C. Waste Data (complete categories as appropriate)

Sanitary Disposal

Disposal Site: BFI 93 Landfill, Jefferson County, CO
 Waste Volume (m³): 91.8
 Waste Weight (tons): 65.2
 Additional Information: Waste materials shipped between 11/13/03 through 11/17/03. Waste materials consisted of demolition debris from 457 cooling tower pad.

Sanitary Disposal

Disposal Site: BFI Landfill, 88th and Tower Road, Commerce City, CO
 Waste Volume (m³): 120
 Waste Weight (tons): 20.6
 Additional Information: Waste materials shipped between 11/10/03 through 11/11/03. Waste materials consisted of demolition debris from 457 cooling tower.

Hazardous Disposal

Disposal Site:
 Waste Volume (m³): N/A
 Additional Information:

TSCA Waste Disposal

Disposal Site:
 Waste Volume (m³): N/A
 Additional Information:

Asbestos Waste Disposal

Disposal Site:
 Waste Volume (m³): NA
 Additional Information:

Low-Level Waste Disposal

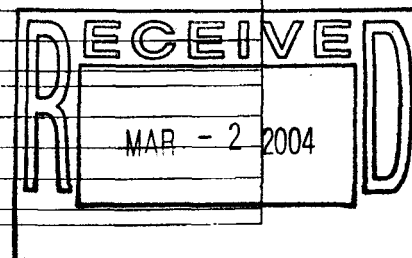
Disposal Site:
 Waste Volume (m³): N/A
 Additional Information:

Low-Level Mixed Waste Disposal

Disposal Site:
 Waste Volume (m³): N/A
 Additional Information:

Recycled Material

Recycle Facility:
 Waste Volume (m³): N/A
 Additional Information:



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Property Disposition	
Receiver Locations (<i>major items only</i>):	
Volume (m ³):	N/A
Weight (tons):	
Additional Information:	

Section D. Approvals		
Kaiser-Hill Project Manager	CJ Farnsworth	02/06/04
	Name/Signature	Date

Type 1 Facility Closeout Report

Section A. Facility Data:

Building 457 Cooling Tower was located directly west of Building 447 (see attached 444 Cluster Type 1 Facilities Map and Cooling Tower 457 Final Closeout Report Area Map). The Cooling Tower was prefabricated steel structure mounted on concrete foundation. Physical size was approximately 12 feet wide X 30 feet long X 12 feet high above the concrete foundation. The cooling tower's electrical panels were located on the east outside wall. The roof was equipped with 4-foot high hand-rails and accessed by a steel ladder.

Related projects include those under the 444 Cluster Facility Buildings; 427, 449, 449A, 449C, S449, 453, 454, and 457 PAD. There were no deviations to decision documents for other projects. No conditions occurred which are different from expectations at characterization.

Cooling Tower 457 was located in the 400 area Individual Hazardous Substance Site (IHSS), designated as a Potential Areas of Concern (PAC) and assigned a unique release number based on the geographic location of the PAC and its status as an existing IHSS. Environmental Restoration (ER) will conduct the identification, investigation, and remediation of the site. Remediation of the site will be determined after characterization sampling, if applicable. Environmental media beneath and surrounding this facility were not within the scope of this project.

D&D of the cooling tower consisted of the demolition of the structure, foundation, piping and electrical system. Electrical conduit and wiring to the structure was cut and air gapped as close to Building 447 as possible. All mechanical systems and piping to the structure were drained, cut, and air gapped. Water was drained to the sanitary sewer and treatment system for processing. Exposed drains to the Building 447 sanitary sewer were grouted at grade to keep foreign material, including ground or surface water, out of the sanitary sewer system. Mechanical plugs were installed on all abandoned piping to Building 447. Final disposition of the abandoned piping and sanitary sewer line will be determined pursuant to decontamination and decommissioning (D&D) of the 444 Cluster Closure Project. Cooling tower structure, mechanical equipment and foundation were demolished and the debris disposed of as sanitary waste. Prior to removal of the concrete pad/foundation, Environmental Restoration obtained samples. Backfill was not permitted until sampling results were received and evaluated. All demolition and cleanup work was performed by GASH Electric and TP Associates, subcontractors to RFCSS. Streets, walks, walkways, and other adjacent facilities remain. Removal of these structures was not within the scope of this project.

Section B. Final Characterization Data:

Reconnaissance Level Characterization (RLC) was performed to enable facility "Typing" per the DPP (10/8/98) and compliant disposition and waste management of certain 444 Cluster facilities (i.e., Buildings 427, 449, 449A, 449C, S449, 453, 454, and 457 Pad). Because this facility was anticipated to be Type 1 facility, the characterization was performed in accordance with the Pre-Demolition Survey Plan (MAN-127-PDSP). All facility surfaces were characterized and the data contained in the RLC report, including the interior and exterior surfaces. Environmental media beneath and surrounding the facilities were not within the scope of this project and will be addressed at a future date using the Soil Disturbance Permit process and in compliance with RFCA.

The RLC encompassed both radiological and chemical characterization to enable compliant disposition and waste management pursuant to the D&D Characterization Protocol (MAN-077-DDCP). The characterization was built upon physical, chemical and radiological hazards identified in the facility-specific Historical Site Assessment Reports.

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Results indicate that no radiological contamination exists in excess of PDSP unrestricted release limits of DOE Order 5400.5. All bulk samples of potential asbestos containing building materials were negative for asbestos. Any hazardous waste items were removed prior to demolition and disposed of in compliance with EPA and CDPHE regulations.

Based upon the RLCR, Cooling Tower 457 is Type 1 facility. Copy of the RLC report can be found in the Rocky Flats administrative record.

Section C. Waste Data:

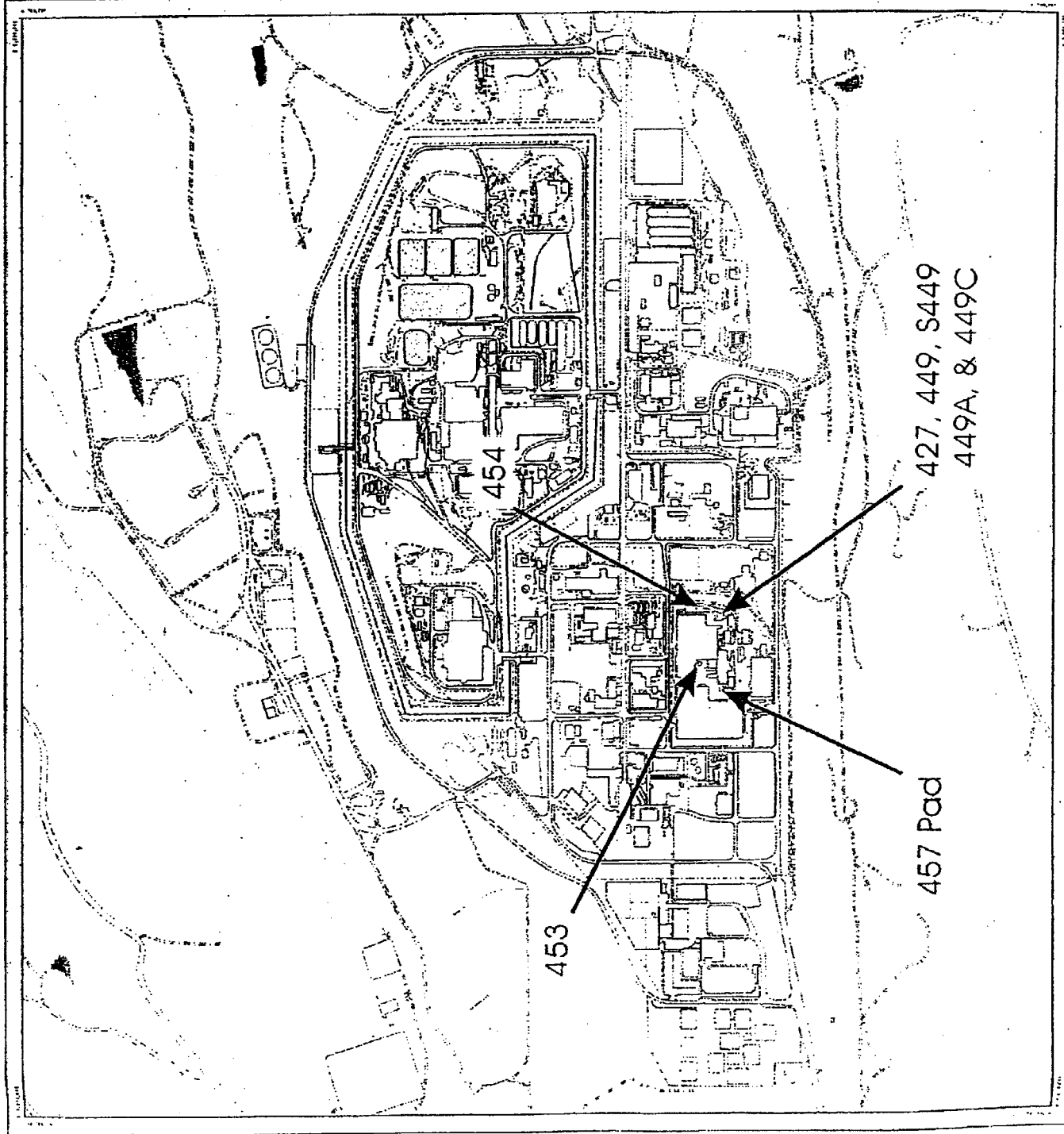
Volumes and weights for wastes generated by this project are listed on the cover page of this closeout report. Record of the waste volume, weights, and disposal site(s) for this project were generated and are maintained by the Sanitary & Special Waste Projects group. No waste analysis was performed in addition to the RLCR. This project did not generate property sold at public auction or recycled.

Additional Information:

Listed below are the databases that provide the administrative controls for waste package and area information, chemical management, storage tank management, and RISS environmental compliance tracking. These databases were updated to reflect the status of the building/cooling tower at the time of demolition/removal.








- Waste and Environmental Management System (WEMS),
- Chemical Tracking System (CTS),
- Tank Management System, and
- Environmental Compliance Action Tracking System (ECATS).

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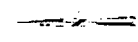


444 Cluster
Type 1 Facilities
427, 449, 449A, 449C,
S449, 453, 454, & 457 Pad

Standard Map Features

-  Buildings and other structures
-  Solar Evaporation Ponds (SEPs)
-  Lakes and ponds
-  Streams, ditches, or other drainage features
-  Fences and other barriers
-  Paved roads
-  Dirt roads

DATA SOURCE BASE FEATURES:
Buildings, fences, hydrography, roads and other structures from 1994 aerial fly-over data captured by EG&G FSL, Las Vegas. Digitized from the orthophotographs, 1/95.



Scale = 1:12450
1 inch represents approximately 1029 feet
8146 Plant Coordinate Projection
Datum: NAD83
Zone: 12N

U.S. Department of Energy
Rocky Flats Environmental Technology Site

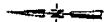
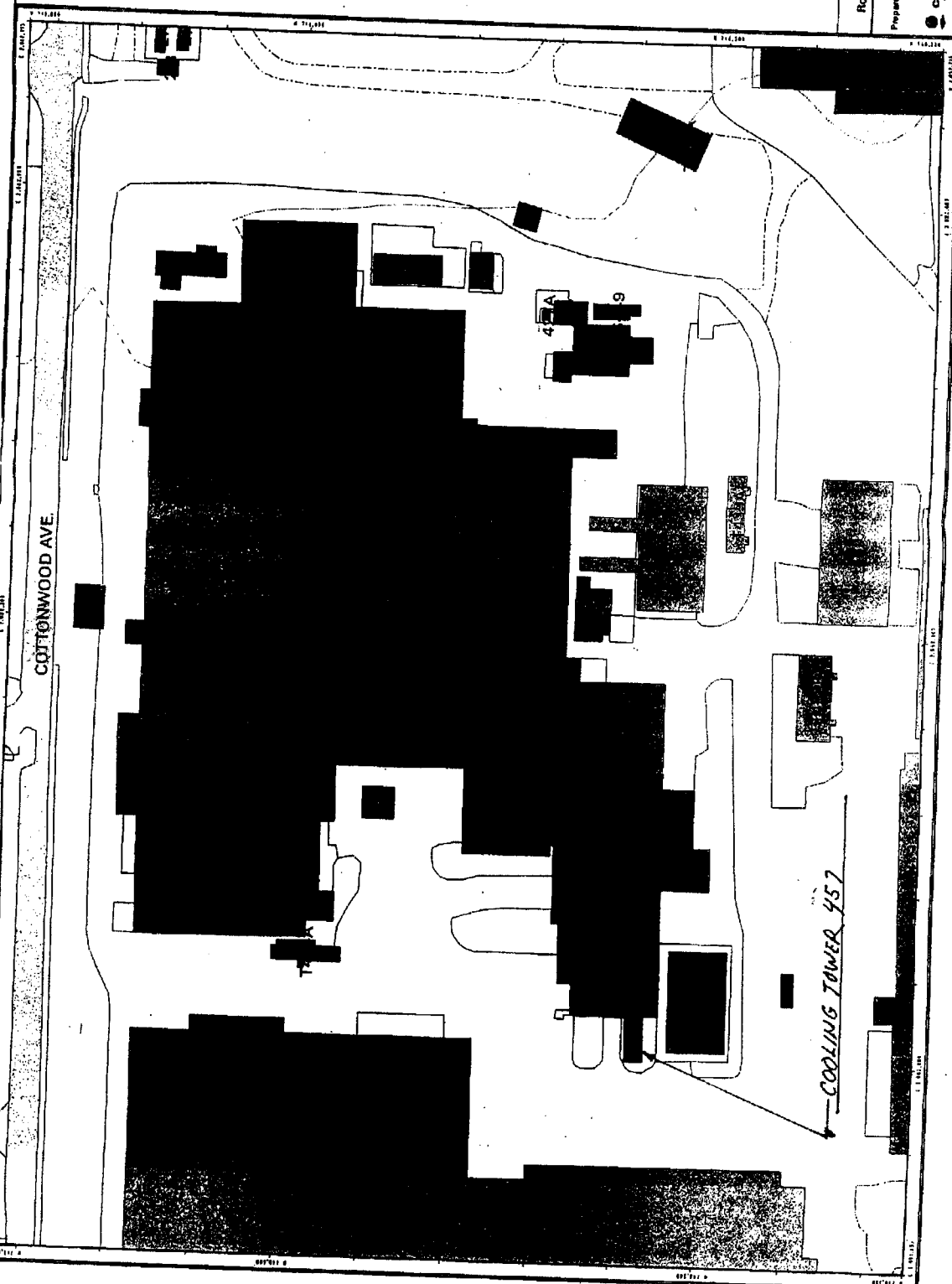
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on Dec 09 09:00:00

MAP ID: FY 2002
August 28, 2002

Cooling Tower 457
Final Closeout Report
Area Map



Scale = 1" = 840'
1 inch represents 70 feet



State Plane Coordinate Projection
Datum: NAD27

U.S. Department of Energy
Rocky Flats Environmental Technology Site

Prepared by:

CH2M HILL

Prepared for:

CH2M HILL
Kaiser Hill

April 18, 2003